



State of Hawaii Department of Transportation

Interstate Route H-201

Outbound Auxiliary Lane,

Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Public Information Meeting and Noise Variance Consultation

Moanalua Middle School

November 20, 2019



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Public Information Meeting Purpose

- Provide information to the community about the planned project improvements.
- Invite comments for the Community Noise Variance Application (CNV). Comments will be used by the State Department of Health, Indoor and Radiological Health Branch (DOH-IRHB) to evaluate the noise variance request.
- Understand community concerns and answer questions



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Public Information Meeting Agenda

- Purpose and Need
- Construction Scope of Work
- Community Noise Variance Application
- Questions and Answers



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Purpose and Need

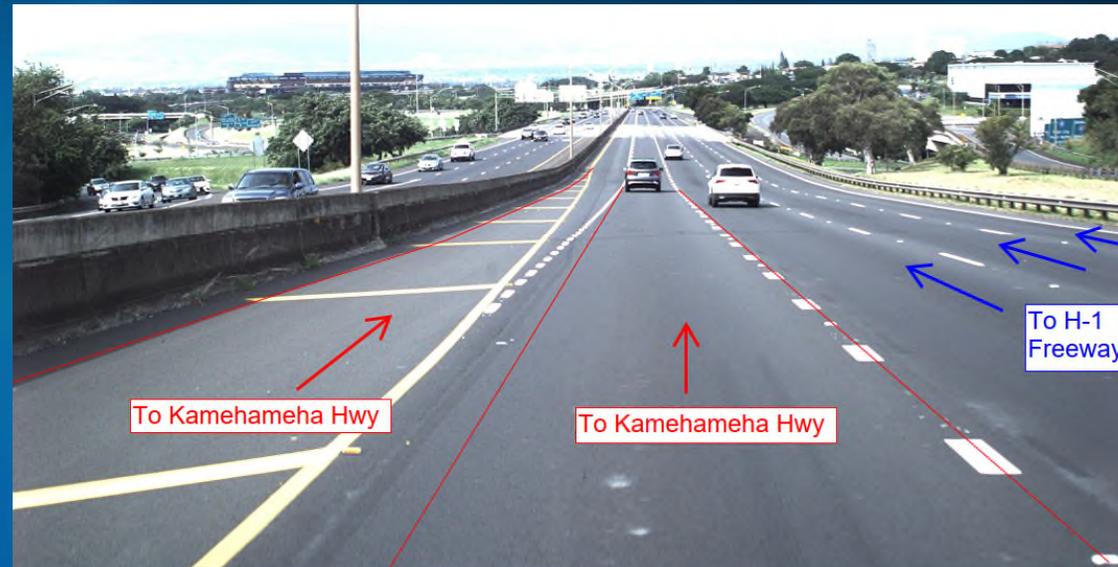
The purpose of the Interstate Route H-201 Westbound Project is to continue the existing left auxiliary lane for the Aiea/Pearlridge Off-Ramp back toward Fort Shafter Off-Ramp to provide an additional lane through the area.



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Project Location

Begin Project
(Vicinity of H-3
Underpass)



End Project
(Fort Shafter
Off-Ramp)



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Potential Staging Area (West of H-3 Underpass)





Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

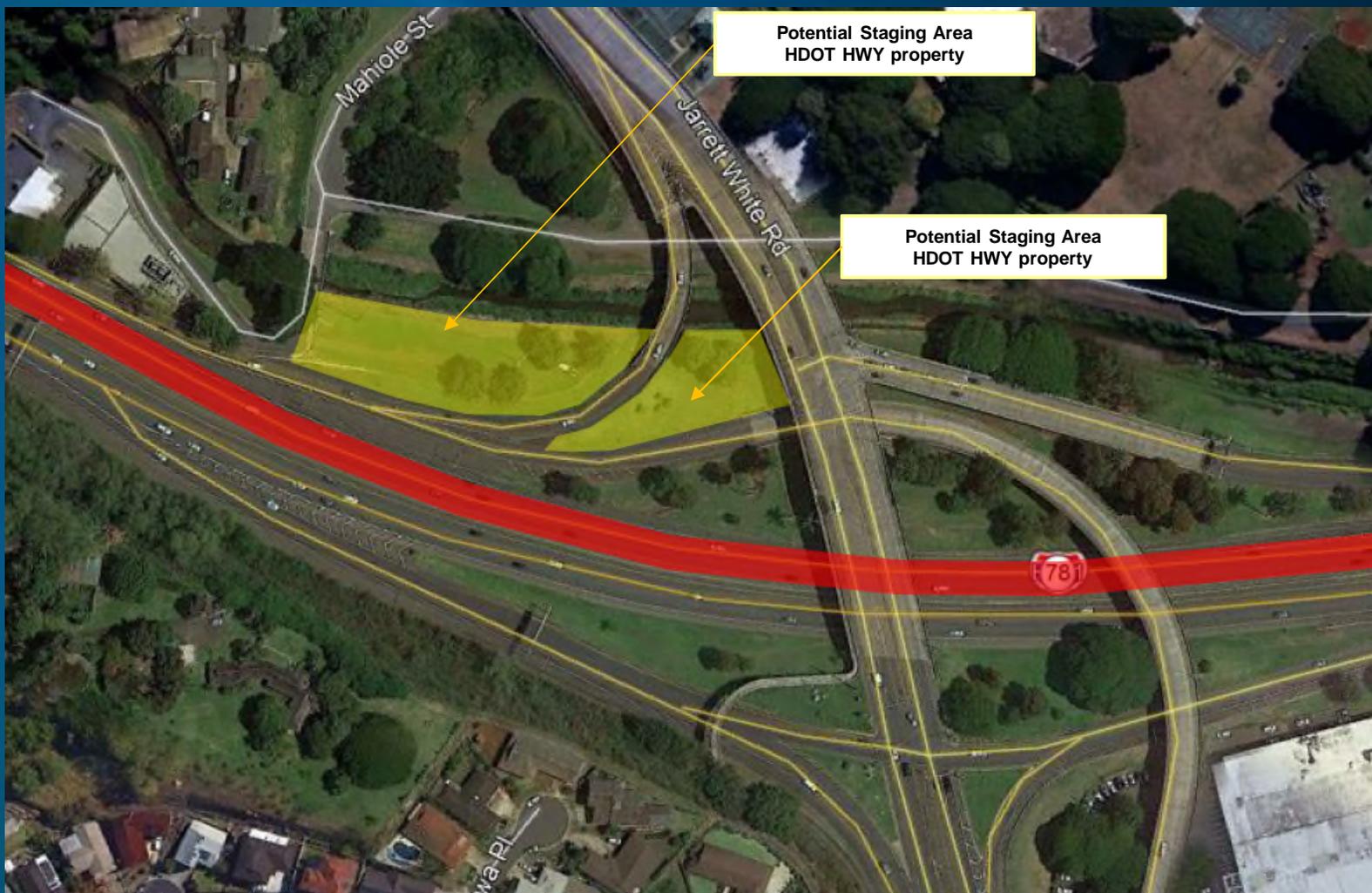
Potential Staging Area (Mauka of H-3 Off-Ramp)





Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Potential Staging Area (West of Puuloa Off-Ramp)





Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Construction Scope of Work

- Reconstructing spot pavement areas
- Cold Planing – removing top layer of pavement
- Resurfacing – replacing the cold planed area
- Installing pavement markings & striping
- Replacing and installing signs
- Removing grass and silt buildup
- Cleaning existing drains
- Installing traffic counting stations
- Trimming hedges along freeway median
- Hedges may alternatively be removed and replaced with a temporary glare screen



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

What to Expect?

Proposed Schedule

Tentative Start Date *March 2020*

Tentative Completion *March 2021*

(Approximately 1 year Construction Duration)

Proposed Time of Construction Activities:

- Sunday 7:00 a.m. to Monday 6:00 a.m.
- Monday 8:00 p.m. to Tuesday 6:00 a.m.
- Tuesday 8:00 p.m. to Wednesday 6:00 a.m.
- Wednesday 8:00 p.m. to Thursday 6:00 a.m.
- Thursday 8:00 p.m. to Friday 6:00 a.m.



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Lane Closures

- During construction hours, at least one lane of traffic in the Westbound direction will be open at all times
- Kaua Street On-Ramp, Fort Shafter/Ahua Street Off-Ramp (Exit 4), Moanalua Valley/Salt Lake/Red Hill Off-Ramp (Exit 2) may be closed for several nights for resurfacing and striping work. At all other times during construction hours, ramps will remain open



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Community Noise Variance Application

Why Night Work?

HDOT is requesting the Noise Variance as construction during the daytime would have severe impacts associated with traffic delays that would be detrimental to the community.



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Community Noise Variance Application

Noise Regulations

HAR Title 11, Chapter 46 sets the rules and restrictions on sound levels for construction projects. It states:

“No permit shall allow any construction activities which emit noise:

- Monday through Friday before 7 a.m. and after 6 p.m. of the same day*
- Saturday before 9 a.m. and after 6 p.m.*
- Sundays and on Holidays”*

A Community Noise Variance must be obtained for any construction activities to occur outside the permissible hours (e.g., after 6 p.m. weekdays).



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Community Noise Variance Application

Proposed Noise Variance

- Variance application requests work be allowed every night, except Friday & Saturday nights from 8:00 p.m. to 6:00 a.m.
- Work may also be allowed during the day on Sundays from 7:00 a.m. to 8:00 p.m., as needed
- Requesting two years to allow for unforeseen events/conditions. Approximate duration of construction is estimated to be 1 year.
- Construction work will require equipment producing noise levels of 85 decibels or higher.



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Community Noise Variance Application

Typical Sound Levels

Relative Sound Level	$\frac{1}{2}$ as loud	Baseline		Twice as loud	Four times as loud			
Typical Sound Environment	Indoor Office	Urban Residential		Urban Commercial				
L _{max} of Common Noise Sources		Washing Machine (3 ft)	Auto (50 mph at 50 ft)	Vacuum Cleaner (3 ft)	Garbage Disposal (3 ft)	Delivery Truck (50 mph at 50 ft)	Dump Truck (50 mph at 50 ft)	Blender (3 ft)
Sound Level dBA	60	65	70	75	80	85	90	
L _{max} at 50 ft of Transit Noise Source		Rail Transit with a Barrier (50 mph)		Rail Transit City Bus (50 mph) (50 mph)				

Source: EPA 1971, EPA 1974, FTA 2006



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Equipment List

Equipment	Decibels at 50 ft.	Equipment	Decibels at 50 ft.
Power Broom	67	Backhoe*	85
Spreader (Paving Machine)	82	Water Truck	75
Front Loader	79	Striping Machine (temp 3)	78
Light Tower	62	Cold Planing Machine	83
Concrete Saw	78	Bobcat Skid Loader*	85
Vacuum*	85	Electric Mudgun*	85
Static Rollers	75	Komatsu Mini Excavator*	85
Vibratory Rollers	83	Backhoe with Hammer*	90
Jumping Jack*	100	Paver*	93.1
Compressor (Air)	81	Shuttlebuggy*	94.2
Generator	81	Rubber Tire Roller (Sakai)*	91.6
Grader*	85	Steel Drum Roller (Dynapac)*	89.7
Dump Truck	78	Steel Drum Roller (Hypac)*	99
Pickup Truck	75	Steel Drum Roller w/Vibration (Bomag)*	95.6
Labor Truck	75	Kickbroom (Kubota)	84
Flatbed Truck	75	Chipper*	110
Chain Saw*	110	Drill with concrete bit*	90-94

* Equipment with Noise Level Readings of 85 Decibels or more



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Equipment List

Equipment	Decibels at 50 ft.
Backhoe (Case)*	94.1
Steel Drum Roller (Sakai)*	103
Striping Truck*	87.5
Vac Truck with Sweeper	82
Distributor Truck	78
Propane Truck	78
Handheld Saw*	90-95
Hedge Trimmer*	103
Hoptoe*	85
Knuckle Boom Truck	80
Post Pounder*	97
Vac Truck*	85
Weed Wacker*	96

* Equipment with Noise Level Readings of 85 Decibels or more





Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Community Noise Variance Application

Construction Contractor's Contact for Noise Concerns

Construction Contractor is not on-board at this time. Once the Contractor has been selected, the affected Residents and Businesses will be notified by mail the designated Contractor Representative to address concerns. The Representative will be available 24/7.



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

More Information

Comments on Noise Variance

The 30-day Public Comment Period
for the Proposed Community Noise Variance is until
December 20, 2019.

State Department of Transportation
Highways Division
601 Kamokila Boulevard, Room 609
Kapolei, Hawaii 96707

Phone: 808-692-7581

E-mail: li.nah.okita@hawaii.gov



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Mahalo!



Interstate Route H-201 Outbound Auxiliary Lane, Vicinity of H-3 Underpass to Fort Shafter Off-Ramp

Questions and Answers

- Please be respectful to those speaking
- Please keep focused on the Noise Variance issues for the proposed project

